

Figure 1. Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

TQ: 0-20 Nm

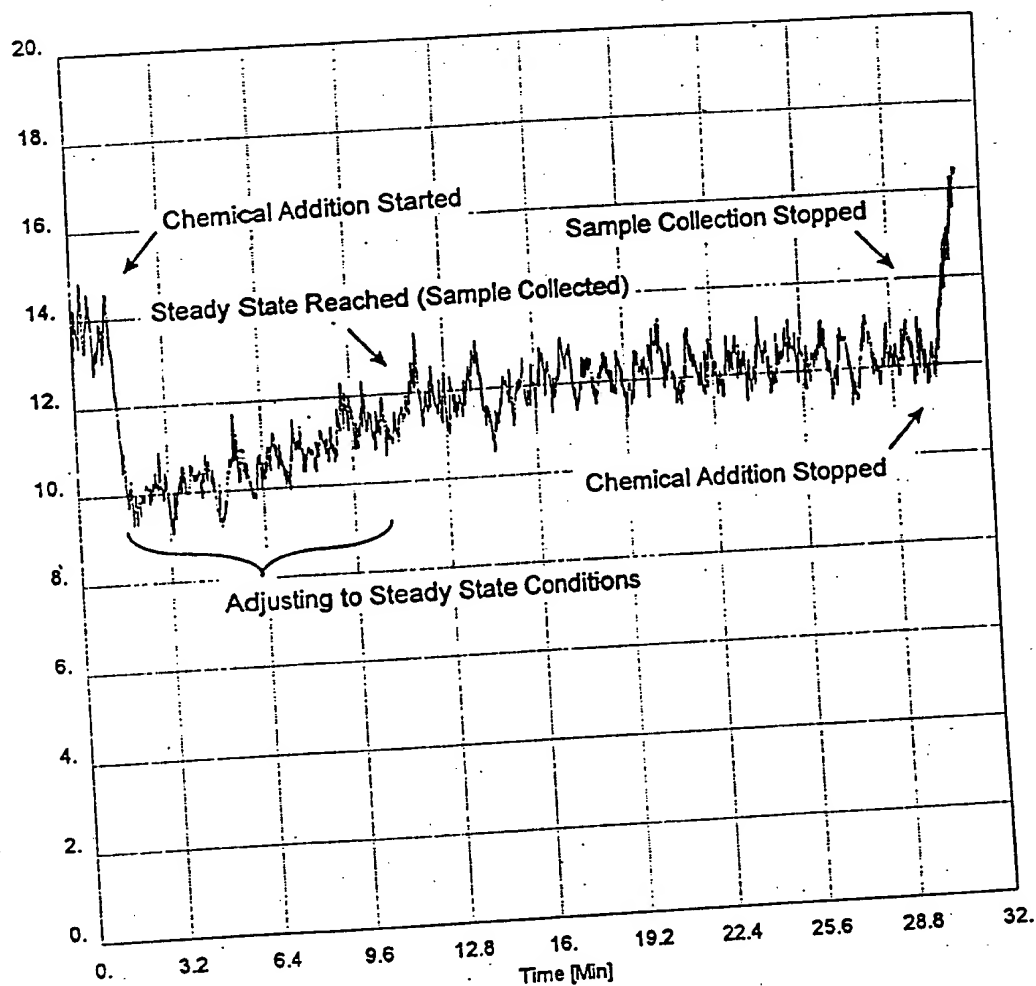
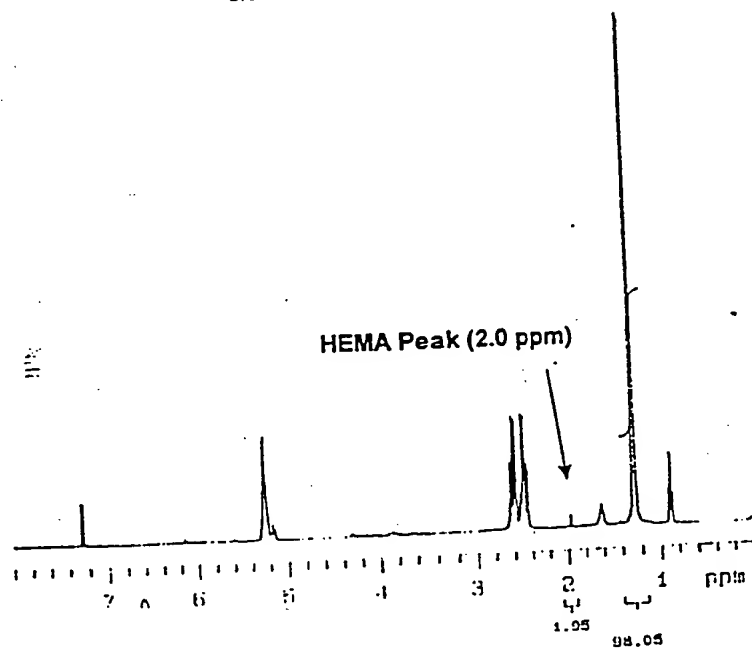
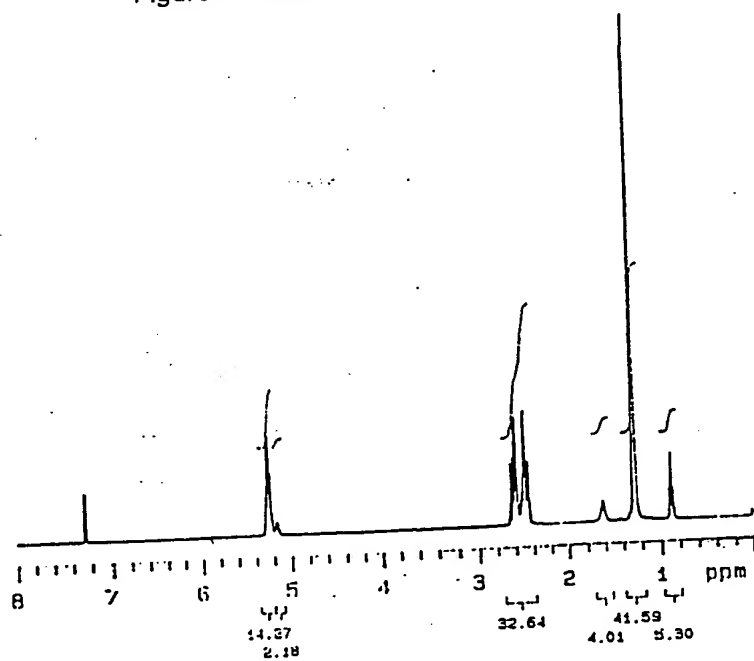


Figure 2 Proton NMR Spectra for PHBV and HEMA Grafted PHBV



00753076-04302

Figure 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

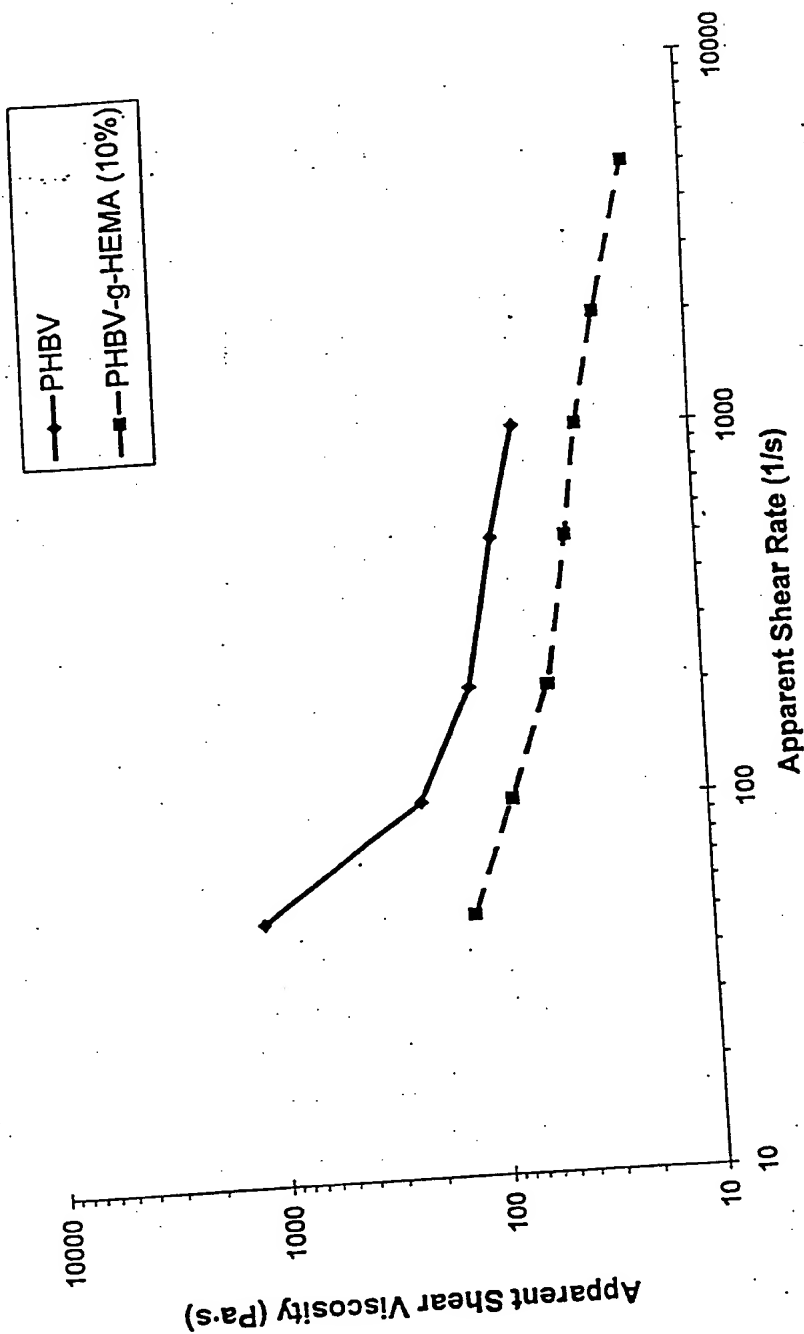
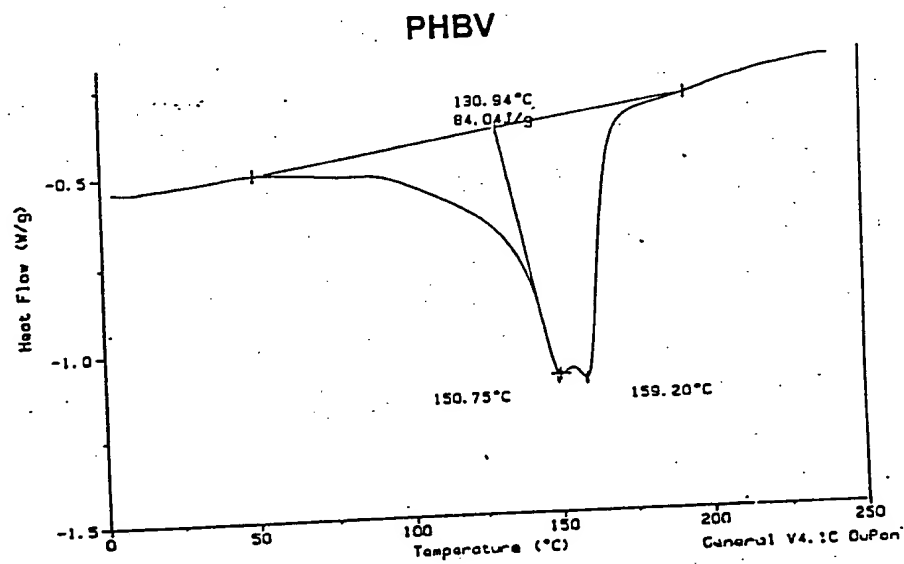
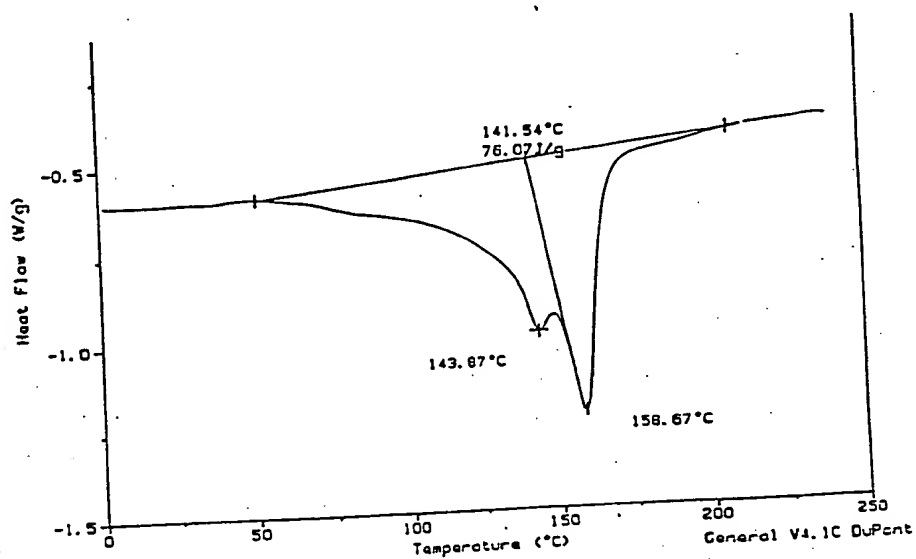


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



HEMA Grafted PHBV

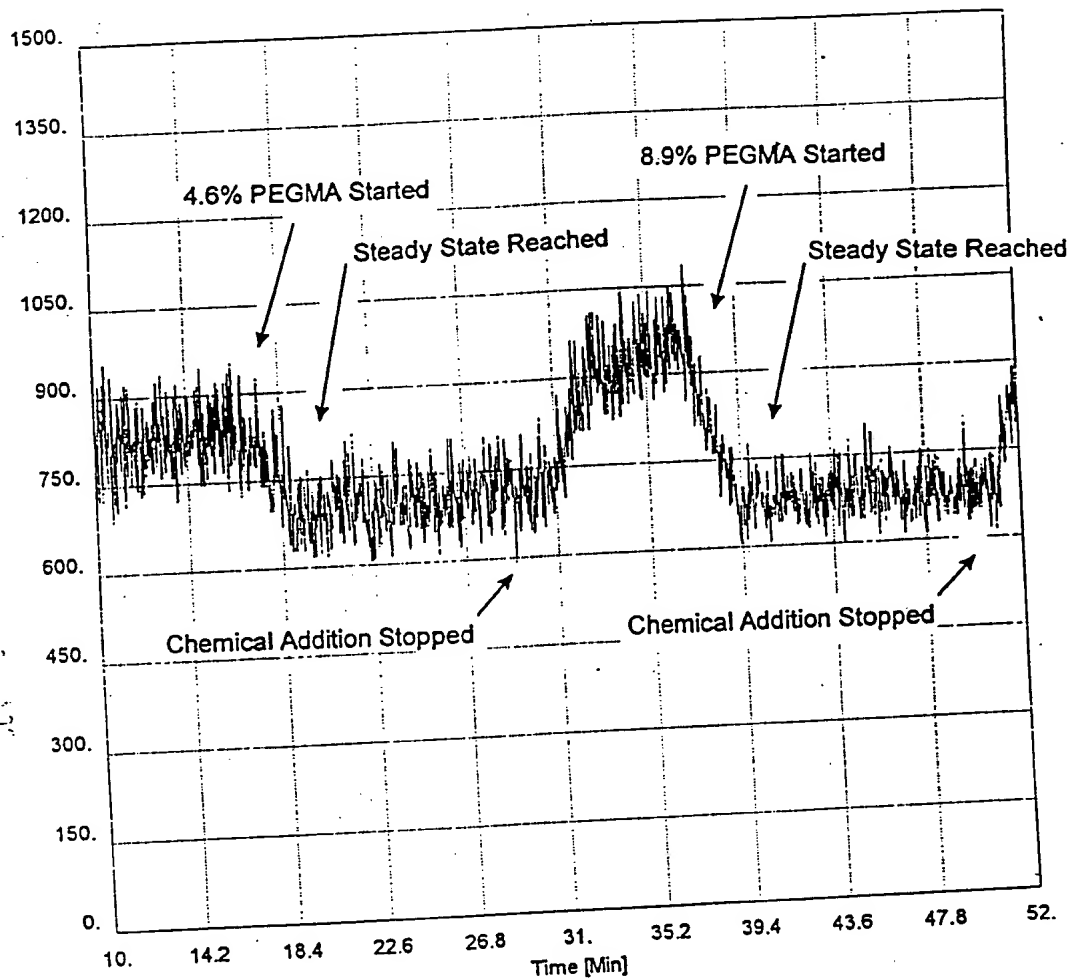


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Figure 5 Torque vs. Time Chart for Reactive Extrusion of PBS 1040 with PEGMA on the Haake Extruder

TQ: 0-1500 m·g



00753046-04303

Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040

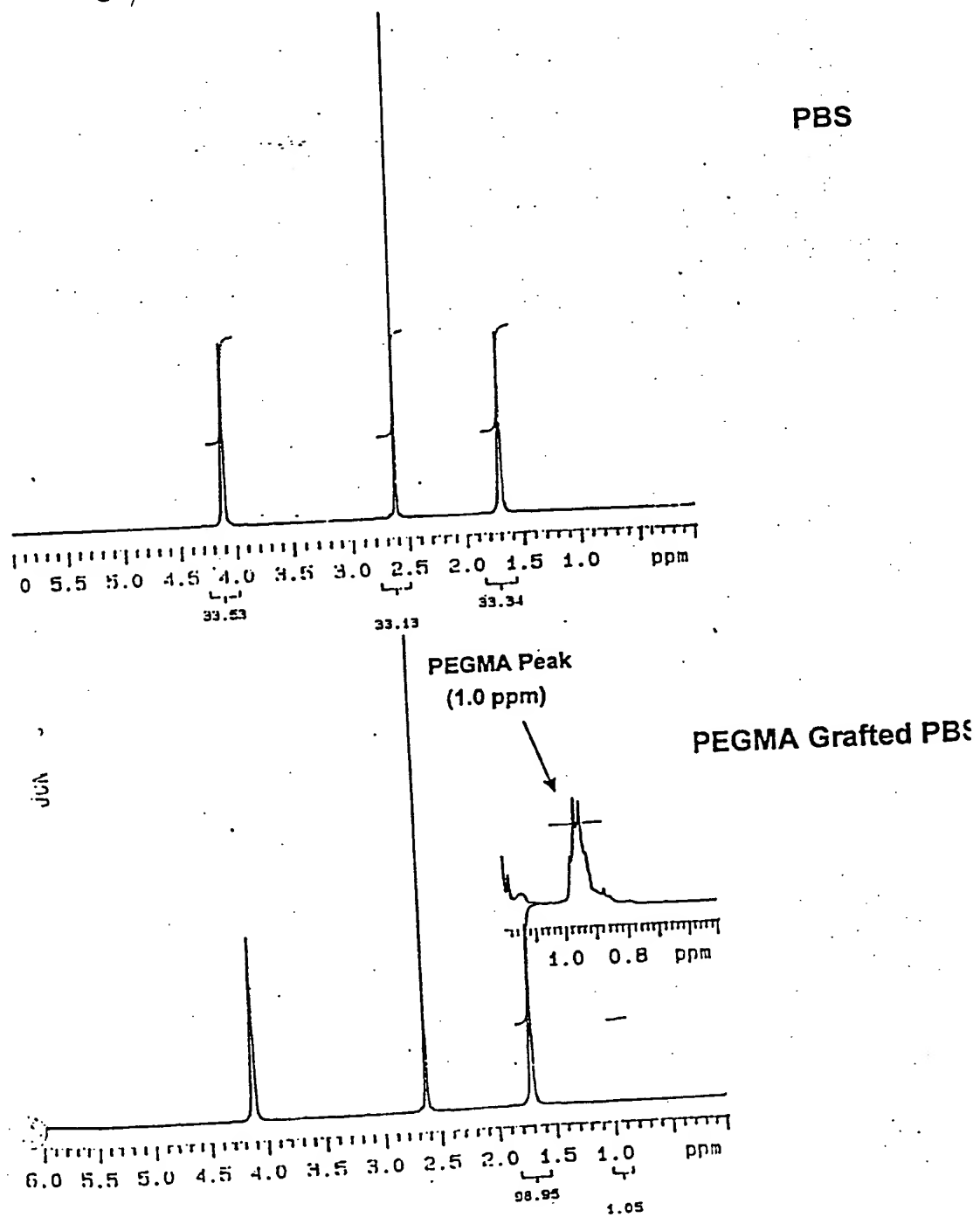


Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)

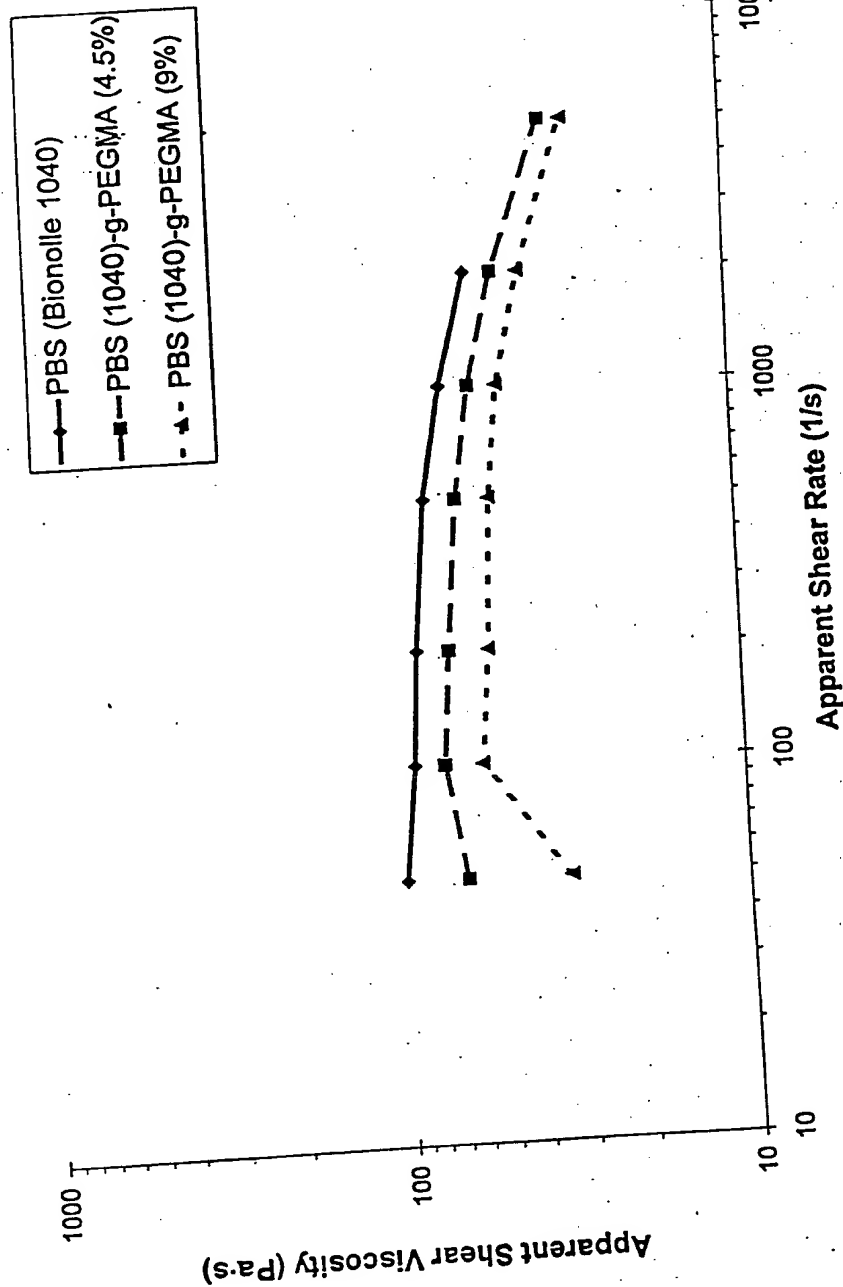


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

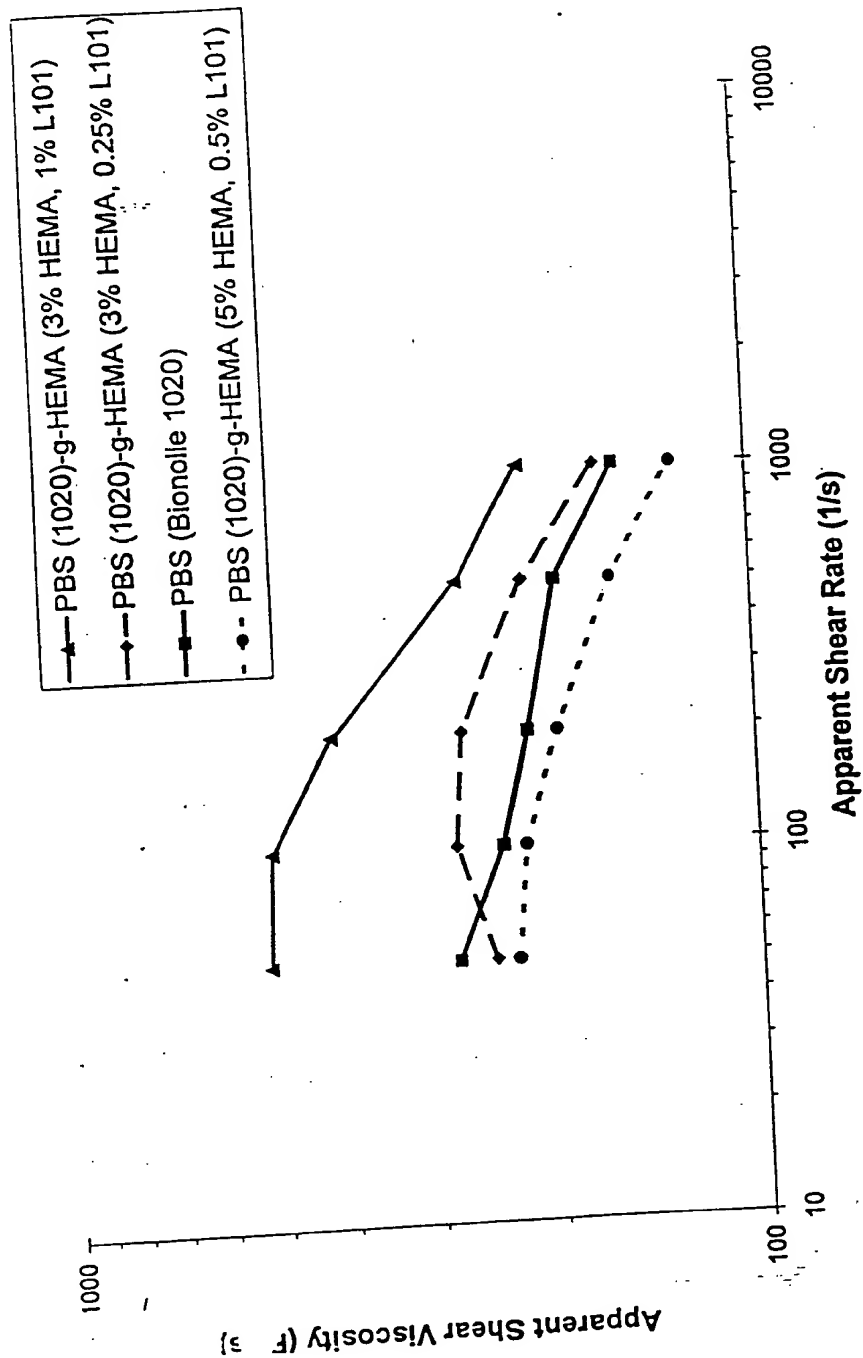
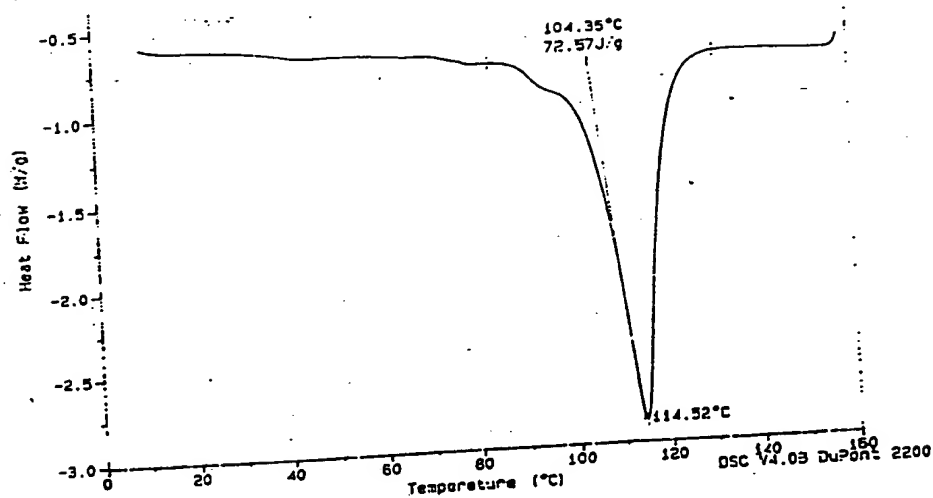
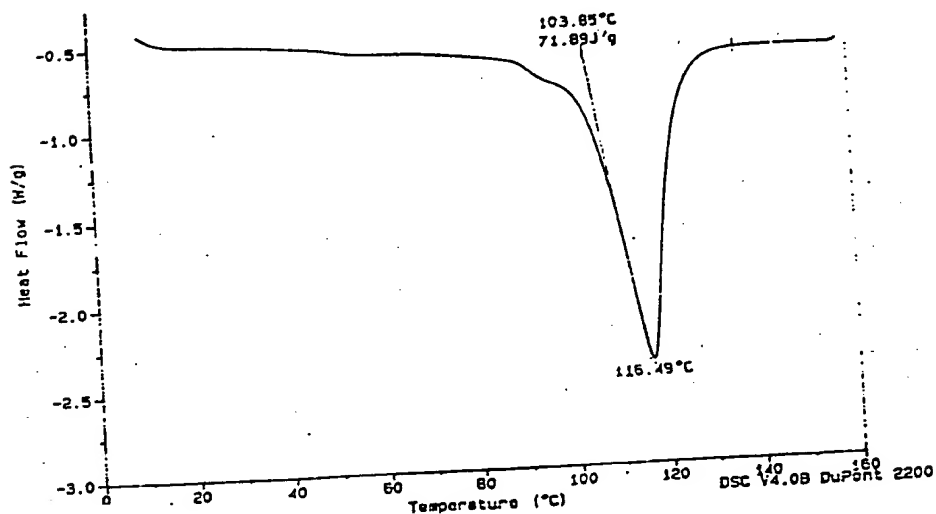


Figure 9 DSC Thermogram for PBS and PEGMA Grafted PBS 1040

PBS

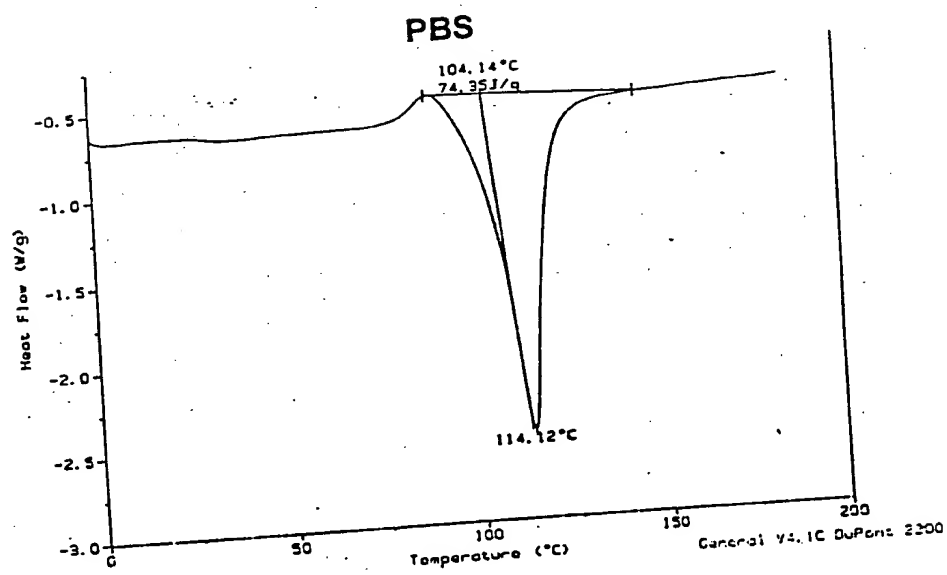


PEGMA Grafted PBS 1040

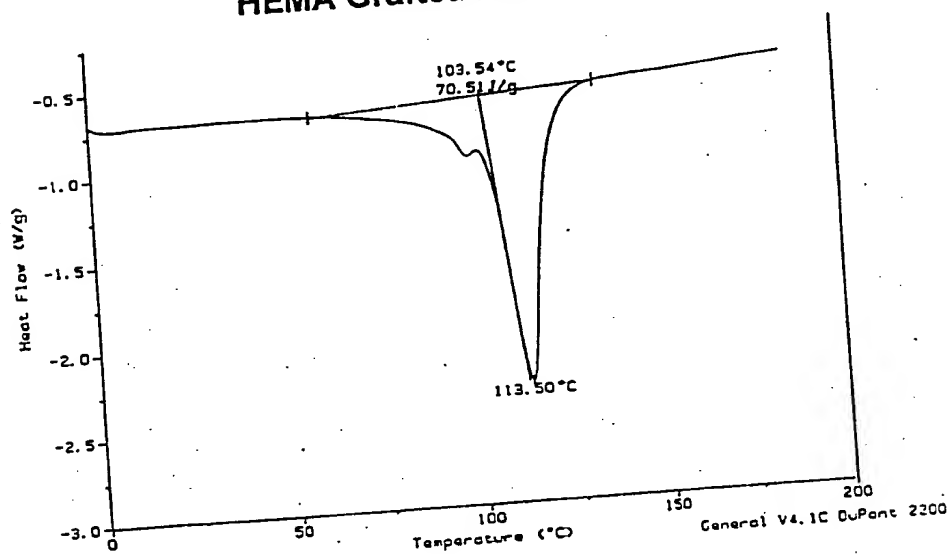


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Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020

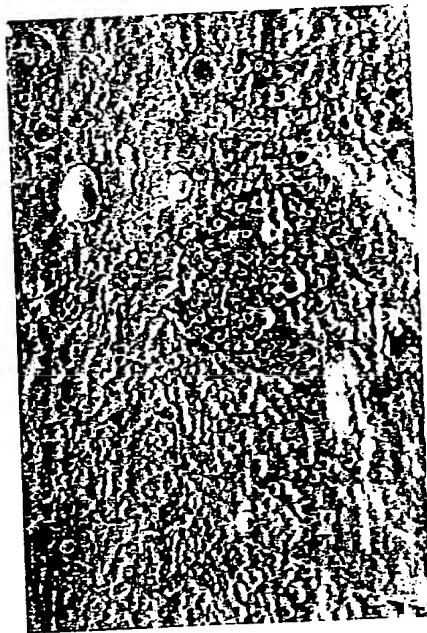


HEMA Grafted PBS 1020



20E210-92055400

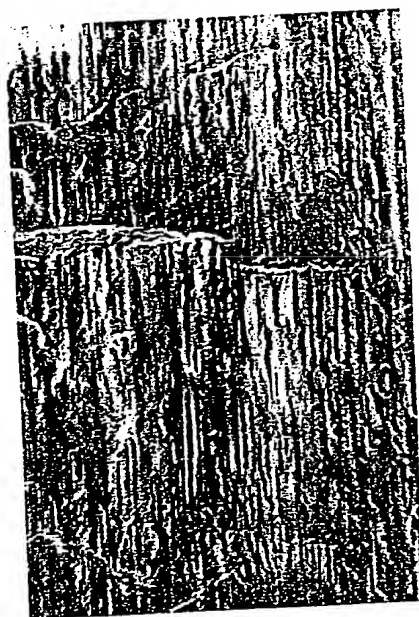
Figure 11



— 10 μm

202210 92055260

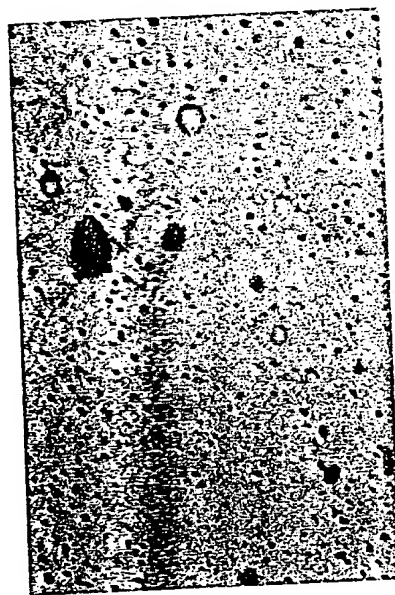
Figure 12



10 μ m

202210-94055460

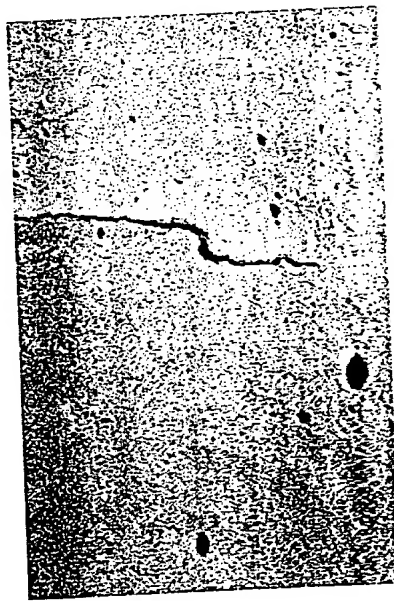
Figure 13



— 10 µm

206210-92063460

Figure 14



— 10 μ m

202210-92059200

Figure 15
 T_m of PEO Phase of Reactive Blends

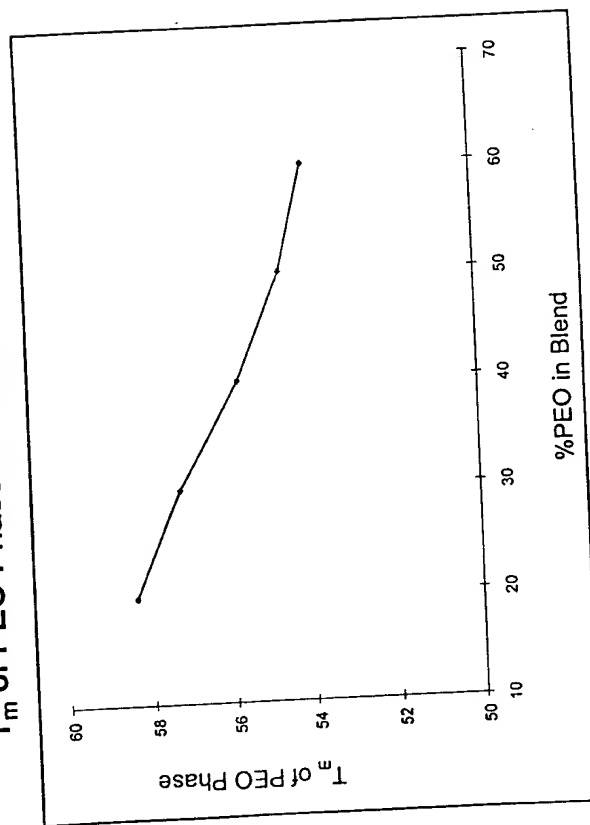


Figure 16

$\Delta T_m \approx T_m$ (PEO Phase of Physical Blends) - T_m (Reactive Blends)

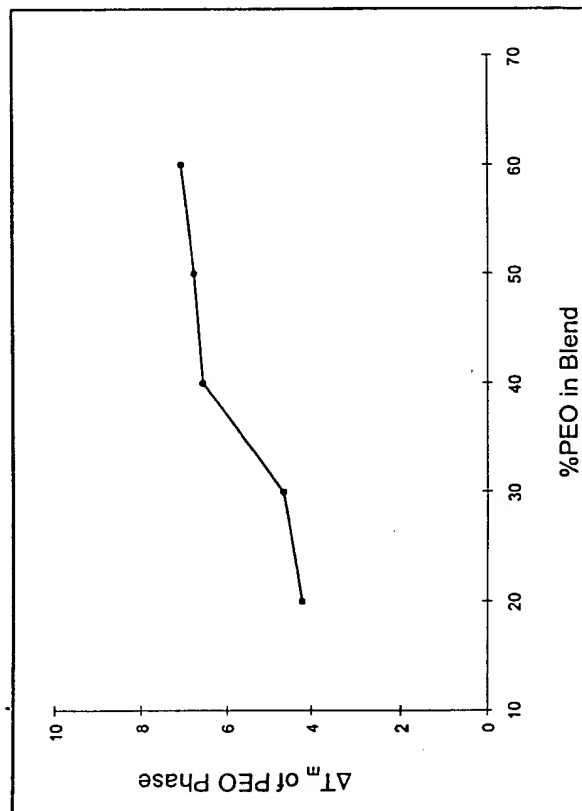
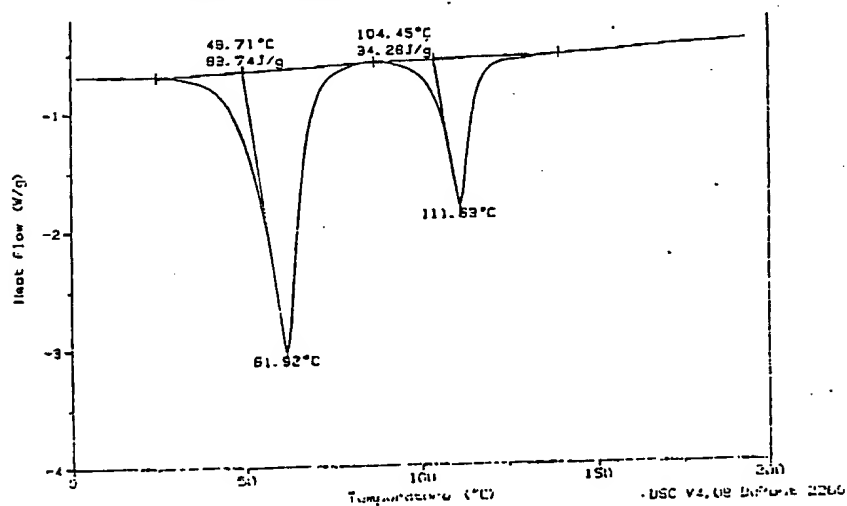


Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends

30/70 PBS/PEO Physical Blend



30/70 PBS/PEO Reactive Blend

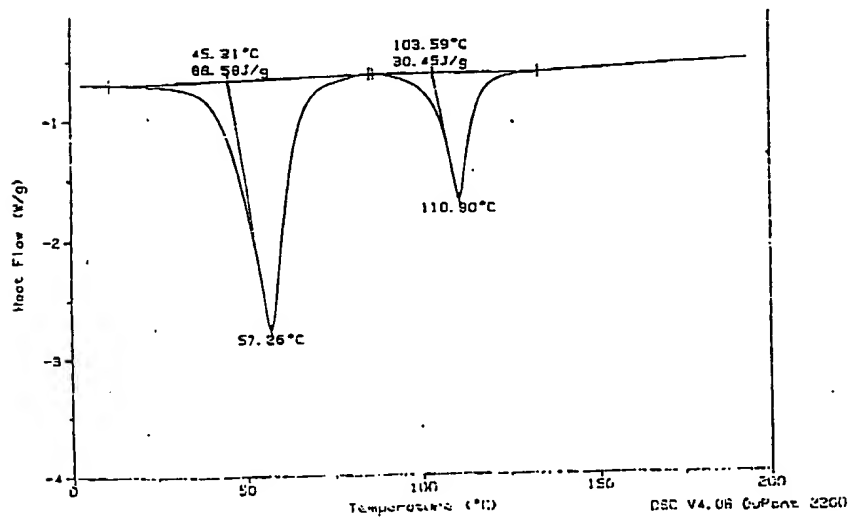


Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

